PATENT COOPERATION TREATY

PCT

INTERNATIONAL SEARCH REPORT

(PCT Article 18 and Rules 43 and 44)



OPP041546KR	FOR FURTHER ACTION	see Form PCT/ISA/220 as well as, where applicable, item 5 below.			
International application No.	International filing date (day/mor	th/year) (Earliest) Priority Date (day/month/year)			
PCT/KR2004/001517	23 JUNE 2004 (23.06.200	4) 30 JANUARY 2004 (30.01.2004)			
Applicant					
ELECTRONICS AND TELECO	MMUNICATIONS RESE.	ARCH INSTITUTE et al			
This International search report has been preport to Article 18. A copy is being transmitted to the		ng Authority and is transmitted to the applicant according			
This international search report consists of a to	otal of 3 sheets.				
It is also accompanied by a cop	y of each prior art document cited	in this report.			
Basis of the report With regard to the language, the intellanguage in which it was filed, unless.		on the basis of the international application in the			
The international search this Authority (Rule 23.1		anslation of the international application furnished to			
b. With regard to any nucleotide a	and/or amino acid sequence discl	osed in the international application, see Box No. I.			
2. Certain claims were found uns	searchable (See Box No. II)				
3. Unity of invention is lacking (See Box No. III)				
4. With regard to the title,					
X the text is approved as submitted	d by the applicant.				
the text has been established by	this Authority to read as follows:				
5. With regard to the abstract,					
X the text is approved as submitted					
		thority as it appears in Box No. IV. The applicant			
may, within one month from the	date of mailing of this internation	al search report, submit comments to this Authority.			
6. With regard to the drawings,		2			
a. the figure of the drawings to be publ		03			
as suggested by the applications failed					
because the applicant failed to suggest a figure. because this figure better characterizes the invention.					
b. none of the figure is to be published with the abstract.					

International application No. PCT/KR2004/001517

CLASSIFICATION OF SUBJECT MATTER A.

IPC7 H04B 17/00

According to International Patent Classification (IPC) or to both national classification and IPC

FIELDS SEARCHED

Minimum documentation searched (classification system followed by classification symbols) H03M 1/12, H04B 1/10, 1/26, 1/69

Documentation searched other than minimum documentation to the extent that such documents are included in the fields searched Korean Patents and applications for inventions since 1975

Electronic data base consulted during the international search (name of data base and, where practicable, search terms used)

DOCUMENTS CONSIDERED TO BE RELEVANT

Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
KR 04-5295 A (LG Electronics Corp.)	1
16 January 2004 (16.01.04.)	
See the whole document	
EP 1157489 A1 (KONINKLIJKE PHILIPS ELECTRONICS N.V.)	1
28 November 2001 (28.11.01.)	
See the whole document	
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See the whole document	
I I S 5 675 330 A (Harris Com.)	1
See the whole document	
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	KR 04-5295 A (LG Electronics Corp.) 16 January 2004 (16.01.04.) See the whole document EP 1157489 A1 (KONINKLIJKE PHILIPS ELECTRONICS N.V.) 28 November 2001 (28.11.01.)

L	Further	documents	are listed	in the	continuation	of Box	C.
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- Special categories of cited documents: "A" document defining the general state of the art which is not considered to be of particular relevance
- "E" earlier application or patent but published on or after the international filing date
- document which may throw doubts on priority claim(s) or which is cited to establish the publication date of citation or other special reason (as specified)
- document referring to an oral disclosure, use, exhibition or other
- document published prior to the international filing date but later than the priority date claimed

- See patent family annex.
- "T" later document published after the international filing date or priority date and not in conflict with the application but cited to understand the principle or theory underlying the invention
- "X" document of particular relevance; the claimed invention cannot be considered novel or cannot be considered to involve an inventive step when the document is taken alone
- "Y" document of particular relevance; the claimed invention cannot be considered to involve an inventive step when the document is combined with one or more other such documents, such combination being obvious to a person skilled in the art
- "&" document member of the same patent family

Date of the actual completion of the international search

26 OCTOBER 2004 (26.10.2004)

Date of mailing of the international search report

28 OCTOBER 2004 (28.10.2004)

Name and mailing address of the ISA/KR



Korean Intellectual Property Office 920 Dunsan-dong, Seo-gu, Daejeon 302-701, Republic of Korea

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SONG, In Kwan

Telephone No. 82-42-481-5708



INTERNATIONAL SEARCH REPORT

Information on patent family members

International application No.
PCT/KR2004/001517

Patent document cited in search report	Publication date	Patent family member(s)	Publication date
KR 04-5295 A	16.01.04.	None	
EP 1157489 A1	28.11.01.	US 6721548 A	13.04.04.
EP 1085668 A2	21.03.01.	CA 2317901 AA	14.03.01.
US 5,675,339 A	07.10.97.	None	